

REGULATION III - CONTROL OF AIR CONTAMINANTS

RULE 325

BRICK AND STRUCTURAL CLAY PRODUCTS (BSCP) MANUFACTURING

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MARICOPA COUNTY
AIR POLLUTION CONTROL REGULATIONS
REGULATION III - CONTROL OF AIR CONTAMINANTS
RULE 325
BRICK AND STRUCTURAL CLAY PRODUCTS MANUFACTURING

SECTION 100 – GENERAL

101 PURPOSE: To limit particulate matter emissions from the use of tunnel kilns for curing in the brick and structural clay product manufacturing processes.

102 APPLICABILITY: This rule applies to any existing tunnel kiln, used in the commercial and industrial brick and structural clay product manufacturing processes with a capacity of more than 1 ton per hour but less than 10 tons per hour. Compliance with the provisions of this rule shall not relieve any person subject to the requirements of this rule from complying with any other federally enforceable New Sources Performance Standards (NSPS). In such cases, the most stringent standard shall apply.

103 EXEMPTIONS: Kilns that are used exclusively for research and development and are not used to manufacture products for commercial sale, except in a de minimis manner, are not subject to this rule.

SECTION 200 – DEFINITIONS: See Rule 100 (General Provisions And Definitions) of these rules for definitions of terms that are used but not specifically defined in this rule. For the purpose of this rule, the following definitions shall apply:

201 BRICK AND STRUCTURAL CLAY PRODUCTS (BSCP)
MANUFACTURING FACILITY- A site that manufactures brick (including,

but not limited to: face brick, structural brick and brick pavers) _____;
claypipe; roof tile; extruded floor and wall tile; and/or other extruded,
dimensional, clay products. Brick products manufacturing facilities typically
process raw clay and shale, form the processed materials into bricks or
shapes, and dry and fire the bricks or shapes.

202 CONTINUOUS KILN – A heated chamber that heats dense loads
uniformly and efficiently, and can be used without interruption for high
volume production. Continuous kilns are kilns that perform well in the
consistent high production of wares. Continuous kilns include tunnel kilns,
roller kilns and sled kilns, decorating kilns and pusher slab kilns.

203 KILN FEED – All materials except fuel entering the tunnel kiln, including
raw feed and recycle dust, measured on a dry basis.

204 RESEARCH AND DEVELOPMENT KILN- Any kiln whose purpose is to
conduct research and development for new processes and products and is
not engaged in the manufacture of commercial products for sale.

205 TUNNEL KILN – Any continuous kiln that is used to fire brick and
structural clay products. Tunnel kilns may have two process streams,
including a process stream that exhausts directly to the atmosphere or to an
Air Pollution Control Device, and a process stream in which the kiln exhaust
is ducted to a sawdust dryer where it is used to dry sawdust before being
emitted to the atmosphere.

SECTION 300 – STANDARDS:

301 OPACITY LIMITATIONS FOR TUNNEL KILNS SUBJECT TO THIS RULE- No
person shall discharge into the ambient air from any single source of emissions
any air contaminant, other than uncombined water, in excess of 20 % opacity.

302 LIMITATIONS FOR TUNNEL KILNS AT BRICK AND STRUCTURAL PRODUCT (BSCP) MANUFACTURING FACILITIES - No owner or operator shall emit more than 0.42 lbs. of particulate matter per ton of fired product from a tunnel kiln with a capacity of more than 1 ton per hour of kiln feed but less than 10 tons per hour of kiln feed.

SECTION 400 - ADMINISTRATIVE REQUIREMENTS

401 COMPLIANCE SCHEDULE: Any owner or operator of a kiln subject to this rule shall be in full compliance by (24 months after the adoption of this rule).

SECTION 500 - MONITORING AND RECORDS

501 COMPLIANCE DETERMINATION: Compliance shall be demonstrated through measurement of particulate matter concentration by performance of the test methods listed in Section 503 no later than (18 months after the adoption of this rule).

502 RECORDKEEPING / RECORDS RETENTION: The owner or operator of any kiln subject to this rule shall comply with the following requirements and keep records for a period of 5 years:

502.1 Daily records of kiln feed fired and hours of operation.

502.2 Monthly records of material delivered to the site for processing in the tunnel kiln and the amount of product produced reported in tons.

503 TEST METHODS: The Environmental Protection Agency (EPA) test methods as they exist in the Code of Federal Regulations (CFR) (July 1, 2003), as listed below, are adopted by reference. These adoptions by reference include no future editions or amendments. Copies of test methods referenced in this section of this rule are

Proposed New Rule 325
Draft Copy #1 for Public Workshop on August 12, 2004
Comments due by August 29, 2004
Contact Patricia P. Nelson for more info at (602) 506-6709
available at the Maricopa County Environmental Services Department, 1001 North
Central Avenue, Suite 201, Phoenix, Arizona, 85004 -1942.

503.1 EPA Reference Method 9 ("Visual Determination of the
Opacity of Emissions from Stationary Sources"), (40 CFR
60, Appendix A).

503.2 EPA Reference Method 5 ("Determination of Particulate
Emissions from Stationary Sources") (40 CFR 60,
Appendix A) and possibly, if requested by the Control
Officer, EPA Reference Method 202 ("Determination of
Condensable Particulate Emissions from Stationary
Sources"), (40 CFR 51, Appendix A).